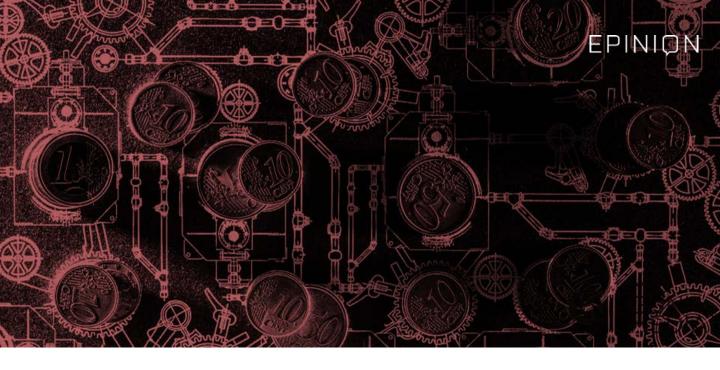


EXPECTATIONS SURVEY FOR NORGES BANK 2018 Q3

The survey questions economists, social partners, business leaders and households.

23 August 2018



PREFACE

On commission by Norges Bank, Epinion carries out quarterly surveys in Norway of expectations for inflation, wage growth, the krone exchange rate and interest rates among economists in the financial industry and academia, the social partners, business leaders and households. Norges Bank orients monetary policy towards keeping inflation low and stable. Inflation expectations can influence actual inflation. A survey conducted at regular intervals can provide greater insight into these questions.

The survey questions four target groups. Online surveys are used for economists in the financial industry and academia, as well as for representatives of main employer and employee organisations and business leaders. Telephone interviews are used for a random selection of individuals in Norwegian households.

The expectations survey is conducted every quarter and was conducted for the first time in February 2002. Epinion has published the survey from 2015 Q1. The survey was previously carried out by Opinion and TNS Gallup.

Stavanger, August 2018

Responsible for the survey at Epinion is:

Sissel Medby Director Telephone: 901 71 899 E-mail: sm@epinionglobal.com

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SUMMARY FOR Q2 2018

Short-term price inflation

The economists surveyed expect goods and services inflation 12 months ahead to be 2.3%, up 0.1 percentage point from the previous quarter. The social partners expect goods and services inflation to be 2.3% 12 months ahead, unchanged from the previous quarter. Business leaders expect goods and services inflation 12 months ahead to be 2.4%, up 0.1 percentage point from the previous quarter. Households expect goods and services inflation to be 2.4% 12 months ahead.

Expected annual wage growth

The economists expect annual wage growth of 2.8% in 2018. Expected annual wage growth among the social partners is 2.8%. Business leaders expect annual wage growth in their own companies of 2.7% in 2018. Households expect wage and pension income growth of 2.1% in the next 12 months, down 0.1 percentage point from the previous quarter.

Expected profitability

31.8% of business leaders expect profitability to improve over the next 12 months, down 5.1 percentage points from the previous quarter. 41.0% of business leaders expect profitability to remain unchanged over the next 12 months, up 4.9 percentage points from the previous quarter, and 17.5% expect profitability to weaken, down 4.4 percentage points from the previous quarter.

Brief summary of individual results for economists

Inflation

Economists expect inflation to be 2.3% in 12 months, up 0.1 percentage point from the previous quarter. Expected annual inflation in 2 years is 2.4%, up 0.1 percentage point from the previous quarter. Economists' expectations of annual inflation 5 years ahead is 2.5%, also up 0.1 percentage point from the previous quarter.

Expected annual wage growth

The economists expect annual wage growth to be 2.8% in 2018. Annual wage growth is expected to be 2.9% for next year. The economists expect annual wage growth in 5 years to be 2.9%, unchanged from the previous quarter.

The krone exchange rate

67.4% of the economists expect the effective krone exchange rate (measured by the trade-weighted krone exchange rate) to be stronger in 12 months, up 10.0 percentage points from the previous quarter. 28.3% expect the effective krone exchange rate to be unchanged in 12 months, down 5.7 percentage points from the previous quarter. 4.3% of the economists expect the effective krone exchange rate to be weaker in 12 months, down 4.2 percentage point from the previous quarter. Average expected appreciation of the krone exchange rate in 12 months is 3.5%, down 0.1 percentage point from the previous quarter.

Brief summary of individual results for social partners

Inflation

The social partners expect inflation to be 2.3% in 12 months, unchanged from the previous quarter. Employer organisations expect inflation in 12 months to be 2.4%, up 0.2 percentage point from the previous quarter. Employee organisations expect inflation to be 2.3% in 12 months, down 0.1 percentage point from the previous quarter.

Expected annual inflation in 2 years among the social partners is 2.6%, up 0.2 percentage point from the previous quarter. Employer organisations expect inflation to be 2.5% in 2 years, up 0.1 percentage point from the previous quarter. Employee organisations expect inflation in 2 years to be 2.6%, up 0.1 percentage point from the previous quarter.

The social partners expect annual inflation of 2.7% in 5 years, up 0.1 percentage point from the previous quarter. Employer organisations expect inflation to be 2.8% in 5 years, up 0,3 percentage point from the previous quarter. Employee organisations expect annual inflation in 5 years to be 2.7%, up 0.1 percentage point from the previous quarter.

Expected annual wage growth

The social partners expect annual wage growth for 2018 to be 2.8%. Employer organisations expect annual wage growth to be 2.7% for 2018, while employee organisations expect annual wage growth of 2.9%.

The social partners expect annual wage growth of 3.0% next year. Employer organisations expect annual wage growth of 2.8% for next year. Employee organisations expect annual wage growth of 2019 to be 3.2%.

The social partners expect average annual wage growth of 3.2% in 5 years, up 0.2 percentage point from the previous quarter.

Brief summary of individual results for business leaders

Inflation

Business leaders expect the goods and services inflation 12 months ahead to be 2.4%, up 0.1 percentage point from the previous quarter. Expected annual inflation in 2 years is 2.8%, unchanged from the previous quarter.

Purchase and selling prices

19.5% of business leaders expect purchase prices for the company to increase more over the next 12 months compared with the past 12 months, up 2.4 percentage points form the previous quarter. 72.4% expect purchase prices in 12 months to increase about as much as in the first quarter of 2018, down 3.8 percentage points from the previous quarter. 5.5% of business leaders expect purchase prices to increase less than in the past 12 months, down 0.7 percentage point from the previous quarter.

15.8% of business leaders expect the company's selling prices to increase more in the next 12 months compared with the past 12 months, up 1.3 percentage point from the previous quarter. 59.9% expect the company's selling prices to increase about the same, down 7.5 percentage points from the previous quarter. 16.0% of business leaders expect the company's selling prices to increase less the next 12 months, up 1.3 percentage points from the previous quarter. 12

Expected annual wage growth

Business leaders expect annual wage growth of 2.7% in own company for 2018. Annual wage growth is expected to be 2.7% for next year.

Expected profitability

31.8% of business leaders report that profitability in own company has improved during the past 12 months, down 4.4 percentage points from the previous quarter. 31.8% report that profitability in their own company has remained unchanged the past 12 months, up 1.6 percentage points. 26.5% of business leaders report that profitability in their own company has weakened during the past 12 months, down 2.5 percentage points from the previous quarter.

31.8% of business leaders expect improved profitability in the next 12 months, down 5.1 percentage points from the previous quarter. 41.0% expect profitability to remain unchanged in the next 12 months, up 4.9 percentage points from the previous quarter, and 17.5% of business leaders expect profitability to weaken, down 4.4 percentage points from the previous quarter.

Employment

36.2% of business leaders expect to have more employees in 12 months, down 2.0 percentage points from the previous quarter. 48.0% expect to have the same number of employees in 12 months, up 3.1 percentage point from the previous quarter, while 15.1% expect to have fewer employees, down 1.4 percentage points from the previous quarter.

Brief summary of individual results for households

Inflation

74.7% of the households surveyed believe prices for goods and services to be higher now than 12 months ago, up 6.9 percentage points from the previous quarter. 18.9% perceives prices as approximately unchanged, down 5.7 percentage points from the previous quarter, while 3.1% believes prices of goods and services to be lower now than 12 months ago, down 1.6 percentage points. Perceived change in prices over the past 12 months is 2.3%.

79.0% of households expect the prices for goods and services to be higher in the next 12 months, up 6.4 percentage points from the previous quarter. 17.3% expect prices to be unchanged, down 4.8 percentage points from the previous quarter. 1.2% of households expect prices for goods and services in 12 months to be lower than at present, down 2.0 percentage point from the previous quarter. Households expect goods and services inflation in 12 months to be 2.4%.

Households expect annual inflation in 2-3 years to be 3.3%, up 0.2 percentage point from the previous quarter.

Expected growth in annual wages and pension income

The households surveyed expected growth in wages and pension income of 2.0% the past 12 months, unchanged from the previous quarter. Expected change in wages and pension income the next 12 months is 2.1%, down 0.1 percentage point from the previous quarter.

Interest rate developments

62.9% of households expect the level of deposit and lending rates to rise over the next 12 months, up 6.3 percentage points from the previous quarter. 29.8% expect the level of deposit and lending rates to remain unchanged, down 5.1 percentage points from the previous quarter. 2.7% of households expect the level of deposit and lending rates to fall over the next 12 months, down 1.5 percentage point from the previous quarter.

The survey

On commission by Norges Bank, Epinion carries out quarterly surveys in Norway of expectations for inflation, wage growth, the krone exchange rate and interest rates among economists in the financial industry and academia, the social partners, business leaders and households. Norges Bank orients monetary policy towards keeping inflation low and stable. Inflation expectations can influence actual inflation. A survey conducted at regular intervals can provide greater insight into these questions. This report and the main results of the expectations survey are published in full on the webpages of Epinion (www.epinion.no). The survey of business leaders was broadened in 2009 to include enterprises with 20 or more employees (compared with 50 or more earlier). In addition, appx. 500 business leaders are now interviewed compared with appx. 300 earlier.

The survey for 2018 Q1 was conducted in the period 1^{st} of August – 20^{th} of August 2018.

QUESTIONNAIRE

To economists and social partners:

- What do you think general rise in prices for goods and services will be in 12 months, as measured by the 12-month change in the consumer price index (CPI)?
- What do you think the general rise in prices for goods and services will be in two years?
- What do you think the general rise in prices for goods and services will be in five years?
- What do you think average wage growth will be this year?
- What do you think average wage growth will be next year?
- What do you think average wage growth will be in five years?
- Do you think that in 12 months the krone exchange rate, as measured by the trade-weighted exchange rate index, will appreciate, remain unchanged or depreciate?
- By how much do you think it will appreciate/depreciate?

To business leaders:

- What do you think the general rise in prices for goods and services will be in 12 months, as measured by the 12-month change in the consumer price index (CPI)?
- What do you think the general rise in prices for goods and services will be in two years? (average)
- Do you expect that over the next 12 months your business's purchase prices will increase more than, increase at approximately the same pace as or increase less than in the past 12-month period?
- Do you expect that over the next 12 months your business's selling prices will increase more than, increase at approximately the same pace as or increase less than in the past 12-month period?
- What do you think average wage growth will be this year?
- What do you think average wage growth will be next year?
- Over the past 12 months, has the profitability of your business, as measured by the operating margin (EBITDA), improved, remained unchanged or weakened?
- Do you think that over the next 12 months, the profitability of your business, as measured by the operating margin (EBITDA), will improve, remain unchanged or weaken?
- Compared with 12 months earlier, does your business currently have more employees, the same number of employees or fewer employees?
- Do you think that in 12 months, your business will have more employees than currently, the same number of employees or fewer employees?

To households:

- Compared with 12 months ago, do you think that prices for goods and services, as measured by the consumer price index, are now higher, approximately unchanged or lower?
- By about how much do you think prices have changed measured in percent?
- Do you think that over the next 12 months, prices for goods and services, as measured by the consumer price index, will be higher, unchanged or lower than they are currently?
- About how much higher/lower, measured in percent?
- Will prices rise faster, at the same pace as currently, or more slowly?
- How much do you think prices for goods and services, as measured by the consumer price index, will rise annually in two to three years, in percent?
- Compared with 12 months ago, by how much do you think your wages or pension has changed in percent?
- By approximately how much do you think your wages or pension will change in percent over the next 12 months?
- Do you think that over the next 12 months, the level of deposit and lending rates will rise, remain unchanged or fall?



TABLES AND GRAPHS

Economists

- 1. Expected inflation in 12 months
- 2. Expected inflation in 2 years
- 3. Ecxpected inflation in 5 years
- 4. Expected annual wage growth for current year
- 5. Expected annual wage growth next year
- 6. Expected annual wage growth in 5 years
- 7. Expected growth in the krone exchange rate in 12 months
- 8. Average expected change in the trade-weighted exchange rate index in 12 months

Social partners

- 9. Expected inflation in 12 months
- 10. Expected inflation in 2 years
- 11. Expected inflation in 5 years
- 12. Expected annual wage growth for current year
- 13. Expected annual wage growth next year
- 14. Expected annual wage growth in 5 years

Business leaders

- 15. Expected general inflation in 12 months
- 16. Expected general inflation in 2 years
- 17. Expected increase in purchase prices for own business the next 12 months
- 18. Expected increase in selling prices for own business next 12 months
- 19. Expected annual growth in labour costs own business current year
- 20. Expected annual wage growth in own business next year
- 21. Profitability in own business last 12 months
- 22. Profitability in own business next 12 months
- 23. Number of employees today compared to 1 year ago
- 24. Number of employees in 12 months

Households

- 25. Perception of price change last 12 months
- 26. Perception of price change last 12 months in percent
- 27. Expected price change next 12 months
- 28. Expected price change next 12 months in percent
- 29. Expected rate of increase next 12 months
- 30. Expected rate of increase next 12 months in percent
- 31. Expected inflation in 2-3 years
- 32. Wage and pension developement last 12 months
- 33. Expected annual wage growth in 1 year in percent
- 34. Expected exchange rate next 12 months



RESULTS - ECONOMISTS

Question 1: ECONOMISTS

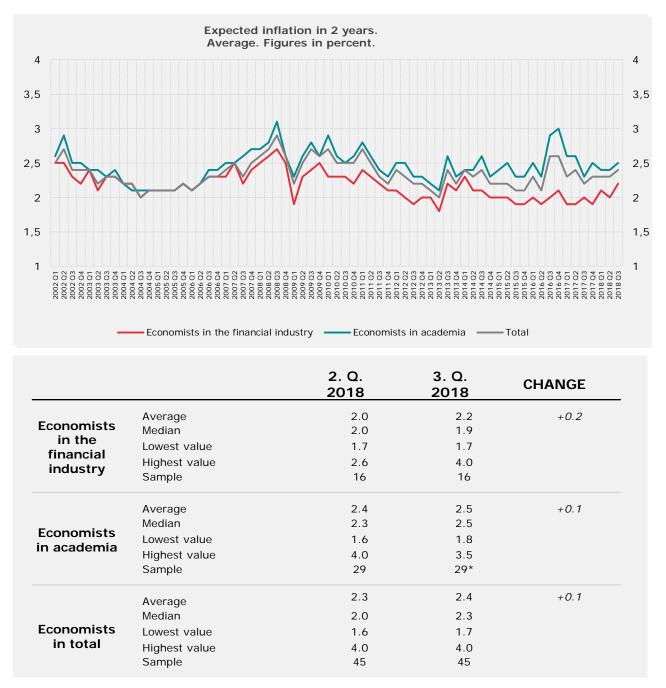
What do you think the general rise in prices for goods and services will be in 12 months, as measured by the 12-month change in the consumer price index (CPI)?



		2. Q.	3. Q.	CHANGE
		2018	2018	
	Average	1.9	2.0	+0.1
Economists	Median	1.8	1.8	
in the	Lowest value	1.5	1.0	
financial	Highest value	3.0	3.2	
industry	Sample	16	16	
	Average	2.3	2.5	+0.2
F	Median	2.2	2.5	
Economists in academia	Lowest value	1.5	1.8	
in academia	Highest value	3.8	3.6	
	Sample	29	30	
	Average	2.2	2.3	+0.1
	Median	2.0	2.4	
Economists	Lowest value	1.5	1.0	
in total	Highest value	3.8	3.6	
	Sample	45	46	

Question 2: ECONOMISTS

What do you think the general rise in prices for goods and services will be in two years?

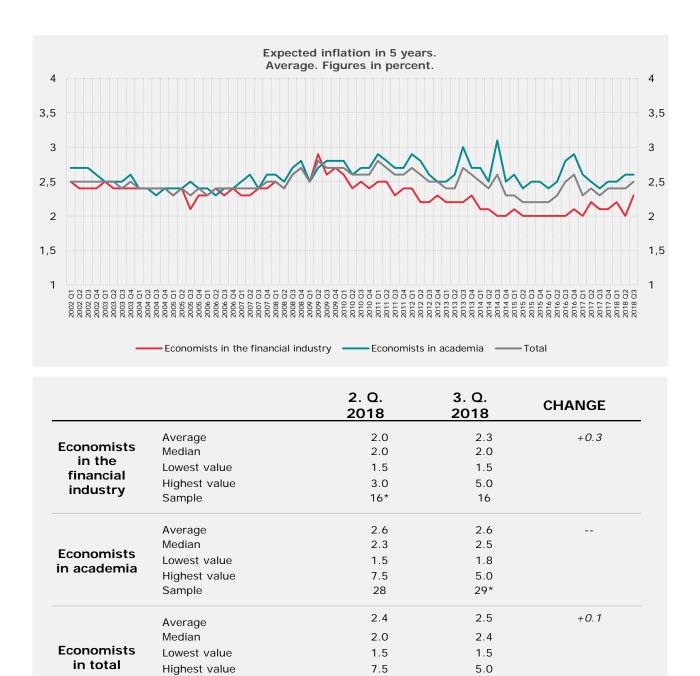


*N=30. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0

Sample

Question 3: ECONOMISTS

What do you think the general rise in prices for goods and services will be in five years?



*N=30. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0

44

45

Question 4: ECONOMISTS

What do you think average wage growth will be this year?



		2. Q. 2018	3. Q. 2018	CHANGE
F	Average	2.8	2.7	-0.1
Economists in the	Median	2.9	2.9	
	Lowest value	2.0	1.0	
financial	Highest value	3.5	3.0	
industry	Sample	17	16	
	Average	2.8	2.9	+0.1
	Median	3.0	3.0	
Economists	Lowest value	1.5	1.2	
in academia	Highest value	3.7	4.0	
	Sample	30	29*	
	Average	2.8	2.8	
	Median	2.9	2.9	
Economists	Lowest value	1.5	1.0	
in total	Highest value	3.7	4.0	
	Sample	47	45	
	•			

*N=30. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0

Question 5: ECONOMISTS

What do you think average wage growth will be next year?

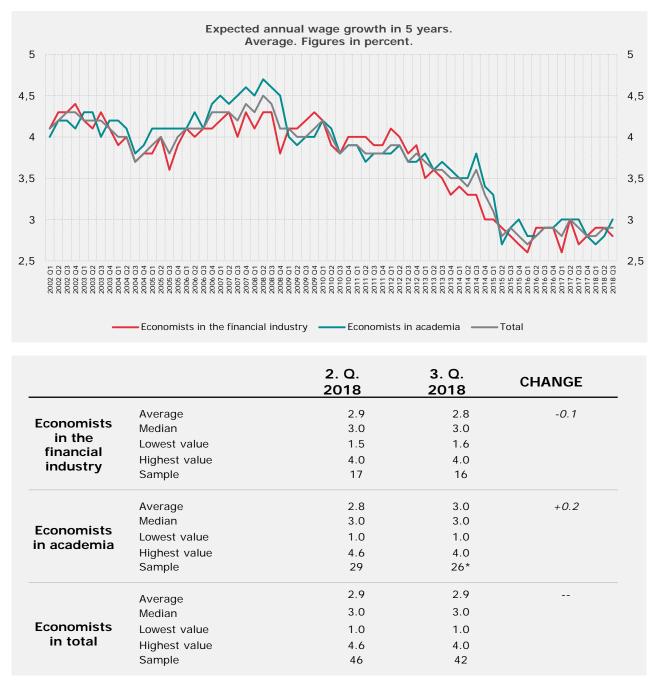


	Economists in the financial industry	Economist	s in academia	- Total
		2. Q. 2018	3. Q. 2018	CHANGE
Economists in the financial industry	Average Median Lowest value Highest value Sample	3.0 3.0 1.8 4.0 17	2.9 3.0 1.5 4.0 16	-0.1
Economists in academia	Average Median Lowest value Highest value Sample	2.8 3.0 0.3 4.0 30	2.9 3.0 0.8 4.0 30	+0.1
Economists in total	Average Median Lowest value Highest value Sample	2.9 3.0 0.3 4.0 47	2.9 3.0 0.8 4.0 46	

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Question 6: ECONOMISTS

What do you think average wage growth will be in 5 years?

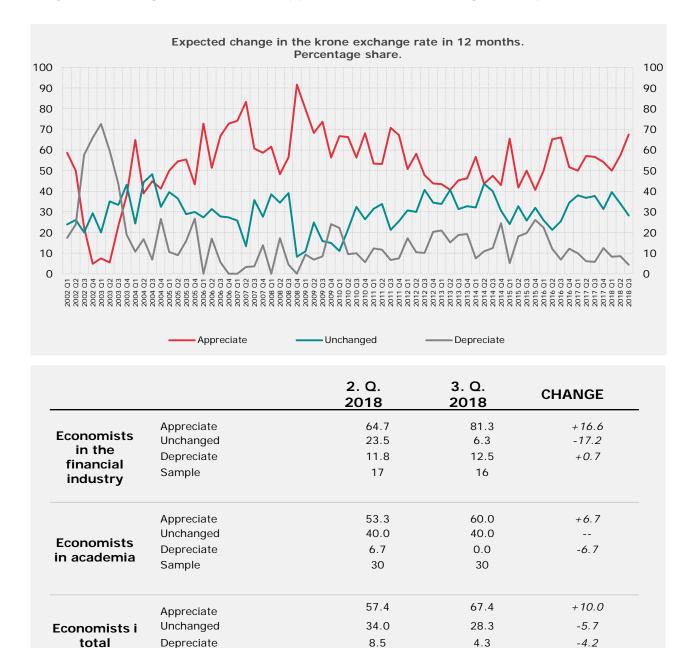


*N=30. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=4, Extreme values N=0

Sample

Question 7: ECONOMISTS

Do you think that in 12 months, the krone exchange rate, as measured by the tradeweighted exchange rate index, will appreciate, remain unchanged or depreciate?

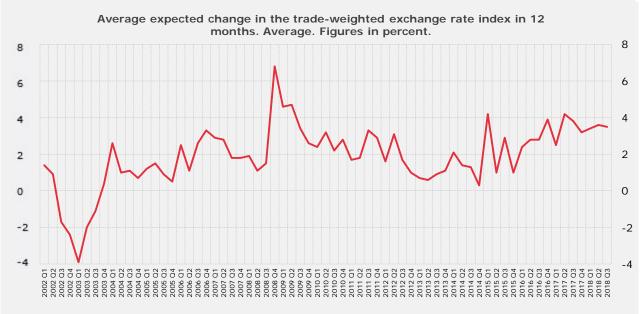


47

46

Question 8: ECONOMISTS

By how much do you think it will appreciate/depreciate? (If answered appreciate/depreciate on question 7)



Total

		2. Q. 2018	3. Q. 2018	CHANGE
	Average	4.1	2.8	-1.3
Economists	Median	5.0	4.0	
in the financial	Lowest value	-1.0	-2.5	
industry	Highest value	7.0	5.0	
maastry	Sample	10	11*	
	Average	3.3	4.2	+0.9
Feenemiste	Median	3.5	4.0	
Economists	Lowest value	-5.0	1.5	
in academia	Highest value	7.0	8.0	
	Sample	12	12**	
	Average	3.6	3.5	-0.1
	Median	4.0	4.0	
Economists	Lowest value	-5.0	-2.5	
in total	Highest value	7.0	8.0	
	Utvalg	22	23	

*N=16. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=2, Extreme values N=3

**N=18. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=2, Extreme values N=4



RESULTS – SOCIAL PARTNERS

Question 9: SOCIAL PARTNERS

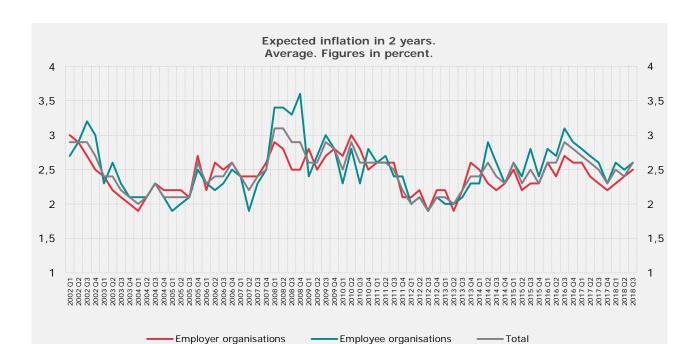
What do you think the general rise in prices for goods and services will be in 12 months, as measured by the 12-month change in the consumer price index (CPI)?



		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.2	2.4	+0.2
Employer	Median	2.1	2.2	
rganisations	Lowest value	1.5	1.5	
gamsations	Highest value	3.0	3.5	
	Sample	16	15	
	Average	2.4	2.3	-0.1
-	Median	2.3	2.2	
Employee	Lowest value	1.9	1.6	
rganisations	Highest value	3.9	4.0	
	Sample	17	22	
	Average	2.3	2.3	
Social	Median	2.2	2.2	
partners in	Lowest value	1.5	1.5	
total	Highest value	3.9	4.0	
		0.7		

Question 10: SOCIAL PARTNERS

What do you think the general rise in prices for goods and services will be in two years?



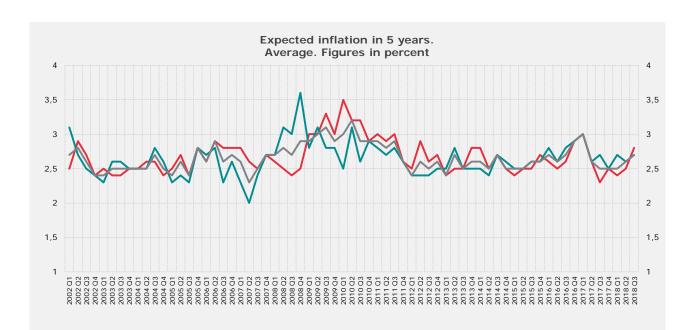
		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.4	2.5	+0.1
	Median	2.2	2.5	
Employer	Lowest value	1.6	1.8	
organisations	Highest value	3.0	3.0	
	Sample	15	14*	
	Average	2.5	2.6	+0.1
	Median	2.5	2.5	
Employee	Lowest value	2.0	1.8	
organisations	Highest value	4.1	3.8	
	Sample	17	21**	
	Average	2.4	2.6	+0.2
Social	Median	2.4	2.5	
partners in total	Lowest value	1.6	1.8	
	Highest value	4.1	3.8	
	Sample	32	35	

*N=15. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0 *N=22. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0

Question 11: SOCIAL PARTNERS

Employer organisations

What do you think the general rise in prices for goods and services will be in five years?



Employee organisations

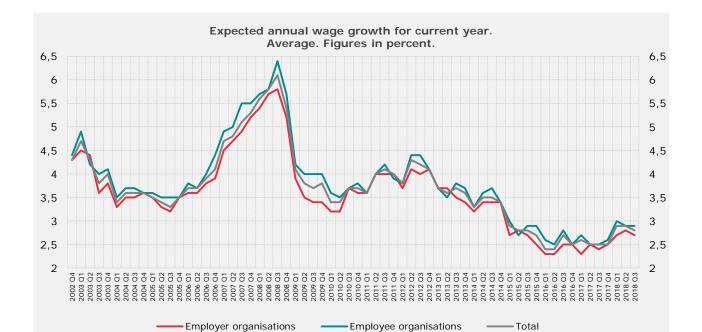
Total

		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.5	2.8	+0.3
F	Median	2.2	2.7	
Employer	Lowest value	1.8	1.9	
organisations	Highest value	3.5	5.0	
	Sample	13	13*	
	Average	2.6	2.7	+0.1
	Median	2.5	2.5	
Employee	Lowest value	2.0	1.8	
organisations	Highest value	4.5	4.0	
	Sample	17	21**	
	Average	2.6	2.7	+0.1
Social	Median	2.5	2.6	
partners in	Lowest value	1.8	1.8	
total	Highest value	4.5	5.0	
	Sample	30	34	
	•			

*N=15. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=2, Extreme values N=0 **N=22. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0

Question 12: SOCIAL PARTNERS

What do you think average wage growth will be this year?



		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.8	2.7	-0.1
Frankassan	Median	2.8	2.8	
Employer	Lowest value	2.0	1.5	
organisations	Highest value	3.0	3.5	
	Sample	15	15	
	Average	2.9	2.9	
Employee	Median	2.9	2.9	
Employee organisations	Lowest value	2.5	2.1	
Jiganisations	Highest value	4.2	3.9	
	Sample	17	22	
	Average	2.9	2.8	-0.1
Social	Median	2.8	2.8	
partners in	Lowest value	2.0	1.5	
total	Highest value	4.2	3.9	
	Sample	32	37	
τοταί	Highest value Sample			

Question 13: SOCIAL PARTNERS

What do you think average wage growth will be next year?

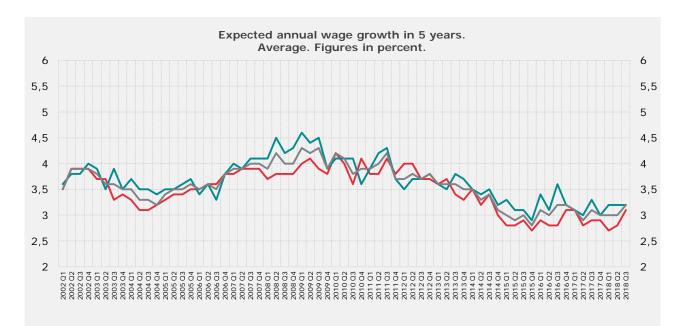


		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.8	2.8	
Franka san	Median	3.0	3.0	
Employer	Lowest value	2.0	1.8	
organisations	Highest value	3.2	3.8	
	Sample	15*	14*	
	Average	3.1	3.2	+0.1
F	Median	3.0	3.2	
Employee	Lowest value	2.5	2.0	
organisations	Highest value	4.3	4.0	
	Sample	17**	22	
	Average	3.0	3.0	
Social	Median	3.0	3.1	
partners in	Lowest value	2.0	1.8	
total	Highest value	4.3	4.0	
	Sample	32	36	

*N=15. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0

Question 14: SOCIAL PARTNERS

What do you think average wage growth will be in 5 years?



		Employee organis	ations — Iot	tal
		2. Q. 2018	3. Q. 2018	CHANGE
Employer organisations	Average Median Lowest value Highest value Sample	2.8 2.5 2.0 4.0 13	3.1 3.0 2.3 4.0 14*	+0.3
Employee organisations	Average Median Lowest value Highest value Sample	3.2 3.0 2.5 4.1 17	3.2 3.1 1.8 4.5 22	
Social partners in total	Average Median Lowest value Highest value Sample	3.0 3.0 2.0 4.1 30	3.2 3.0 1.8 4.5 36	+0.2

*N=15. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=1, Extreme values N=0



RESULTS – BUSINESS LEADERS

Question 15: BUSINESS LEADERS

What do you think the general rise in prices for goods and services will be in 12 months, as measured by the 12-month change in the consumer price index (CPI)?

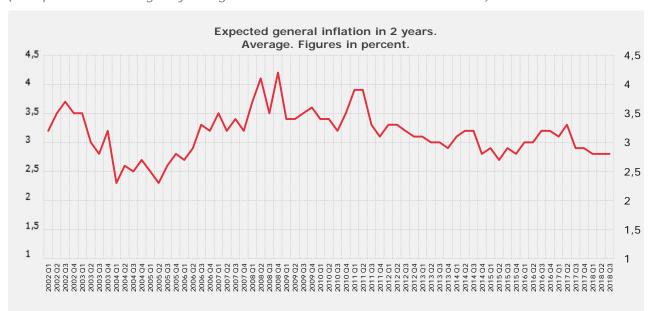


		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.4	2.5	+0.1
Businesses	Median	2.2	2.5	
with fewer	Lowest value	0.1	0.8	
than 50	Highest value	7.2	10.0	
employees	Sample	168	167*	
	Average	2.2	2.3	+0.1
Businesses	Median	2.2	2.3	
with more than 50	Lowest value	0.0	0.5	
employees	Highest value	4.0	5.0	
employees	Sample	257	239**	
	Average	2.3	2.4	+0.1
Business	Median	2.2	2.4	
leaders in	Lowest value	0.0	0.5	
total	Highest value	7.2	10.0	
	Sample	425	406	

*N=189. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=22, Extreme values N=0 **N=267. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=28, Extreme values N=0

Question 16: BUSINESS LEADERS

What do you think the general rise in prices for goods and services will be in two years, as measured by the consumer price index? (*The question was marginally changed from Q1 2015 – see technical comment*)¹.

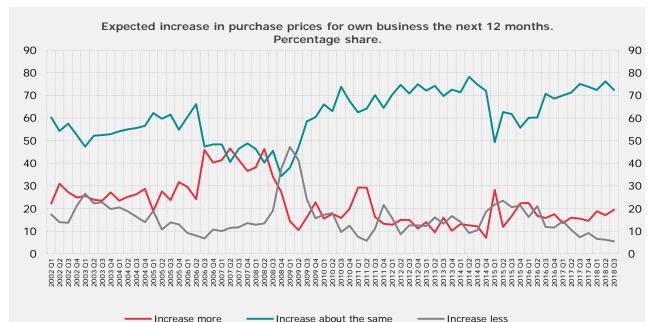


		2. Q. 2018	3. Q. 2018	CHANGE
	Average	3.0	3.0	
Businesses	Median	2.5	2.5	
with fewer	Lowest value	1.0	1.0	
than 50	Highest value	7.0	9.0	
employees	Sample	163	161*	
	Average	2.7	2.7	
Businesses	Median	2.5	2.5	
with more	Lowest value	0.8	1.0	
than 50	Highest value	7.0	7.0	
employees	Sample	249	232*	
	Average	2.8	2.8	
Business	Median	2.5	2.5	
leaders in	Lowest value	0.8	1.0	
total	Highest value	7.0	9.0	
	Sample	414	393	

*N=189. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=27, Extreme values N=0 *N=267. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=35, Extreme values N=0

Question 17: BUSINESS LEADERS

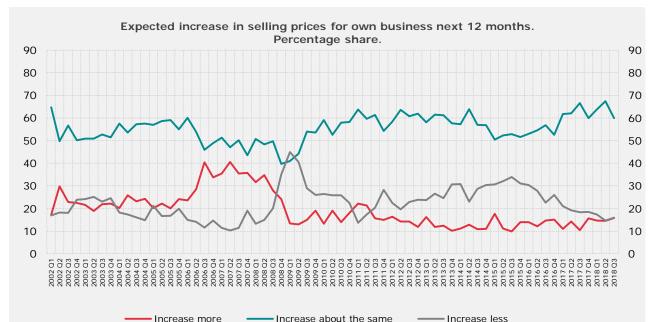
Do you expect that over the next 12 months your business's purchase prices will increase more than, increase at approximately the same pace as or increase less than in the past 12-month period?



		2. Q.	3. Q.	CHANGE
		2018	2018	CHANGE
Businesses	Increase more	17.7	22.8	+5.1
with fewer	Increase about the same	73.2	68.8	-4.4
than 50	Increase less	9.1	6.3	-2.8
employees	Sample	194	189	
Businesses	Increase more	16.8	17.2	+0.4
with more	Increase about the same	78.1	74.9	-3.2
than 50	Increase less	4.2	4.9	+0.7
employees	Sample	286	267	
Business	Increase more	17.1	19.5	+2.4
	Increase about the same	76.2	72.4	-3.8
leaders in	Increase less	6.2	5.5	-0.7
total	Sample	480	456	

Question 18: BUSINESS LEADERS

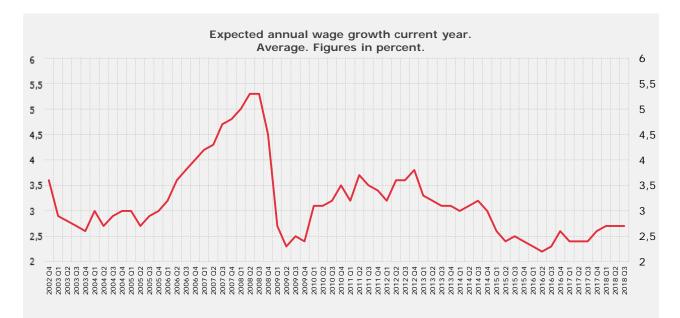
Do you expect that over the next 12 months your business's selling prices will increase more than, increase at approximately the same pace as or increase less than in the past 12-month period?



		2. Q. 2018	3. Q. 2018	CHANGE
Businesses	Increase more	15.9	13.2	-2.7
with fewer	Increase about the same	66.6	61.4	-5.2
than 50	Increase less	16.2	18.5	+2.3
employees	Sample	194	189	
Businesses	Increase more	13.6	17.6	+4.0
with more	Increase about the same	68.0	58.8	-9.2
than 50	Increase less	13.7	14.2	+0.5
employees	Sample	286	267	
	Increase more	14.5	15.8	+1.3
Business	Increase about the same	67.4	59.9	-7.5
leaders in total	Increase less	14.7	16.0	+1.3
	Sample	480	456	

Question 19: BUSINESS LEADERS

What do you think average wage growth will be this year?



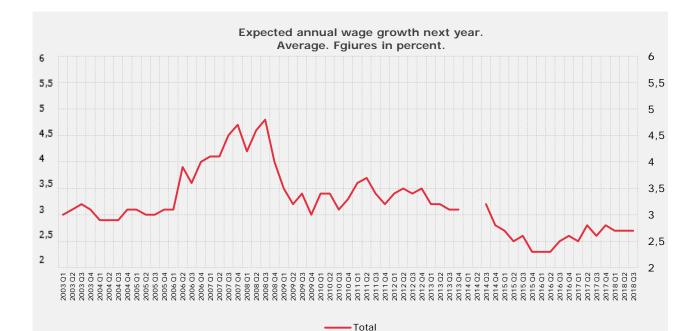
- Total

		2. Q. 2018	3. Q. 2018	CHANGE
Ducincocc	Average	2.7	2.7	
Businesses with fewer	Median	2.8	2.7	
than 50	Lowest value	-10.0	0.0	
employees	Highest value	10.0	11.0	
employees	Sample	188	182*	
	Average	2.7	2.7	
Businesses	Median	2.8	2.7	
with more than 50	Lowest value	0.0	0.0	
employees	Highest value	7.0	5.5	
employees	Sample	279	257**	
	Average	2.7	2.7	
Business	Median	2.8	2.7	
leaders in total	Lowest value	-10.0	0.0	
	Highest value	10.0	11.0	
	Sample	467	439	

*N=189. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=7, Extreme values N=0 **N=267. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=10, Extreme values N=0

Question 20: BUSINESS LEADERS

What do you think average wage growth will be next year?



		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.7	2.7	
Businesses	Median	2.8	2.8	
with fewer	Lowest value	0.0	0.0	
than 50 employees	Highest value	7.0	7.0	
empioyees	Sample	181	180*	
	Average	2.7	2.7	
Businesses	Median	2.8	2.8	
with more	Lowest value	0.0	0.5	
than 50 employees	Highest value	8.0	5.0	
employees	Sample	274	256**	
	Average	2.7	2.7	
Business	Median	2.8	2.8	
leaders in	Lowest value	0.0	0.0	
total	Highest value	8.0	7.0	
	Sample	455	436	

*N=189. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=8, Extreme values N=1 **N=267. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=11, Extreme values N=0

Question 21: BUSINESS LEADERS

Over the past 12 months, has the profitability of your business, as measured by the operating margin (EBITDA), improved, remained unchanged or weakened? (*The question was marginally changed from Q1 2015 – see technical comment*)^{2.}



 Profitability index 	last	12	months
---	------	----	--------

		2. Q. 2018	3. Q. 2018	CHANGE
	Improved profitability	37.6	33.9	+ 3.7
Businesses	Unchanged profitability	31.4	34.9	+3.5
with fewer	Weakened profitability	29.3	23.8	-5.5
than 50 employees	Net percentage balance (profitability index)	8.3	5.1	-3.2
	Sample	194	189	
	Improved profitability	35.2	30.3	-4.9
Businesses	Unchanged profitability	29.4	29.6	+0.2
with more	Weakened profitability	28.8	28.5	-0.3
than 50 employees	Net percentage balance (profitability index)	6.4	1.8	-4.6
	Sample	286	267	
	Improved profitability	36.2	31.8	-4.4
Dusiness	Unchanged profitability	30.2	31.8	+1.6
Business leaders in total	Weakened profitability	29.0	26.5	-2.5
	Net percentage balance (profitability index)	7.2	5.3	-1.9
	Sample	480	456	

Question 22: BUSINESS LEADERS

Do you think that over the next 12 months, the profitability of your business, as measured by the operating margin (EBITDA), will improve, remain unchanged or weaken?

(The question was marginally changed from Q1 2015 – see technical comment)^{3.}



Profitability index next 12 months

		2. Q. 2018	3. Q. 2018	CHANGE
	Improved profitability	39.2	29.1	-10.1
Businesses	Will remain unchanged	39.3	46.0	+6.7
with fewer	Weakened profitability	19.8	17.5	-2.3
than 50 employees	Net percentage balance (profitability index)	19.4	11.6	-7.8
	Sample	194	189	
	Improved profitability	35.3	33.7	-1.6
Businesses	Will remain unchanged	33.9	37.5	+3.6
with more	Weakened profitability	23.3	17.6	-5.7
than 50 employees	Net percentage balance (profitability index)	12.0	16.1	+4.1
	Sample	286	267	
	Improved profitability	36.9	31.8	-5.1
Rusinoss	Will remain unchanged	36.1	41.0	+4.9
Business leaders in total	Weakened profitability	21.9	17.5	-4.4
	Net percentage balance (profitability index)	15.0	14.3	-0.7
	Sample	480	456	

Question 23: BUSINESS LEADERS

More employees

Compared with 12 months earlier, does your business currently have more employees, the same number of employees or fewer employees? (*The question was marginally changed from Q1 2015 – see technical comment*)^{4.}



Same number of employees

- Fewer employees

		2. Q. 2018	3. Q. 2018	CHANGE
	More employees	40.6	33.9	-6.7
Businesses	Same number of employees	39.2	41.3	+2.1
with fewer	Fewer employees	19.8	24.3	+4.5
than 50 employees	Net (more employees – fewer employees)	20.8	9.6	-11.2
employees	Sample	194	189	
	More employees	42.2	39.7	-2.5
Businesses	Same number of employees	33.6	32.2	-1.4
with more	Fewer employees	23.9	27.3	+3.4
than 50 employees	Net (more employees – fewer employees)	18.3	12.4	-5.9
employees	Sample	286	267	
	More employees	41.5	37.3	-4.2
Dusines	Same number of employees	35.9	36.0	+0.1
Business	Fewer employees	22.2	26.1	+3.9
leaders in total	Net (more employees – fewer employees)	19.3	11.2	-8.1
	Sample	480	456	
	•			

Question 24: BUSINESS LEADERS

Do you think that in 12 months, your business will have more employees than currently, the same number of employees or fewer employees?



- More	omn		
INIOLE	emp	iUy	ees

Same number of employees

Fewer employees

		2. Q. 2018	3. Q. 2018	CHANGE
	More employees	39.7	39.7	
Businesses	Same number of employees	49.2	48.7	-0.5
with fewer	Fewer employees	10.6	11.6	+1.0
than 50 employees	Net (more employees – fewer employees)	29.1	28.1	-1.0
Simpleyees	Sample	194	18.9	
	More employees	37.2	33.7	-3.5
Businesses	Same number of employees	42.0	47.6	+5.6
with more	Fewer employees	20.5	17.6	-2.9
than 50 employees	Net (more employees – fewer employees)	16.7	16.1	-0.6
employees	Sample	286	267	
	More employees	38.2	36.2	-2.0
Development	Same number of employees	44.9	48.0	+3.1
Business	Fewer employees	16.5	15.1	-1.4
leaders in total	Net (more employees – fewer employees)	21.7	21.1	-0.6
	Sample	480	456	
	-			



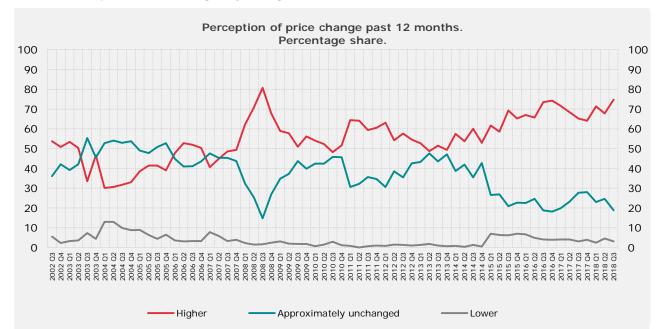
RESULTS – HOUSEHOLDS

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Question 25: HUSHOLDNINGENE HOUSEHOLDS

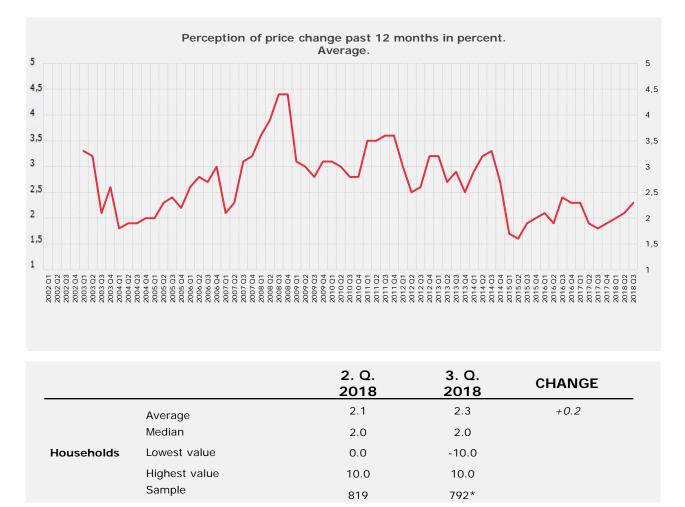
Compared with 12 months ago, do you think that prices for goods and services, as measured by the consumer price index, are now higher, approximately unchanged or lower? (*The question was marginally changed from Q1 2015 – see technical comment*)^{5.}



		2. Q. 2018	3. Q. 2018	CHANGE
	Higher	67.8	74.7	+6.9
Households	Approximately unchanged	24.6	18.9	-5.7
	Lower	4.7	3.1	-1.6
	Sample	1006	1009	

Question 26: HOUSEHOLDS

By about how much do you think prices have changed measured in percent? (*The question was marginally changed from Q1 2015 – see technical comment*)^{6.}



*N=942. The presented sample exclude respondents who answered: Don't know/Do not want to answer N=120, Extreme values N=30

NB: The method for calculating the mean for historical figures in the period of 2015 – 2017 has been changed. The result presented in the graph above is comparable with the previous result. Results published in the period of 2015 – 2017 are changed to include those who answer "approximately unchanged" to question 25 with the value "0" in the mean calculation. See technical comment on page 50 for households for further description.

Question 27: HOUSEHOLDS

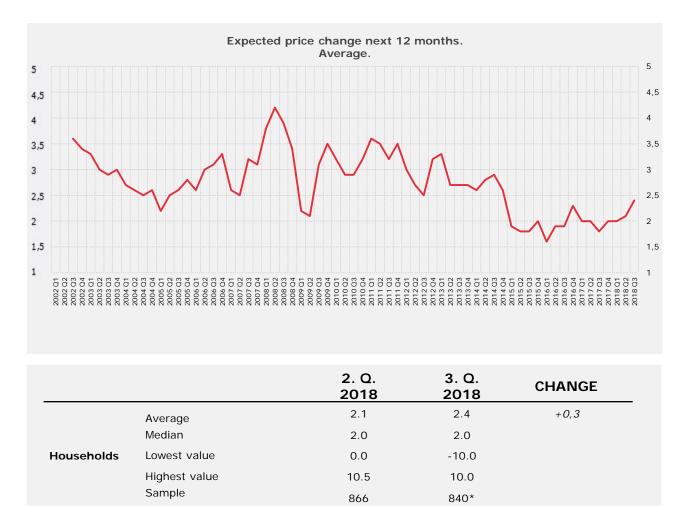
Do you think that over the next 12 months prices for goods and services, as measured by the consumer price index, will be higher, unchanged or lower than they are currently? (*The question was marginally changed from Q1 2015 – see technical comment*)^{7.}



	2. Q. 2018	3. Q. 2018	CHANGE
Higher	72.6	79.0	+6.4
Unchanged	22.1	17.3	-4.8
Lower	3.2	1.2	-2.0
Sample	1006	1009	
	Unchanged Lower	2018 Higher 72.6 Unchanged 22.1 Lower 3.2	2018 2018 Higher 72.6 79.0 Unchanged 22.1 17.3 Lower 3.2 1.2

Question 28: HOUSEHOLDS

About how much higher/lower, measured in percent? (The question was marginally changed from Q1 2015 – see technical comment)^{8.}



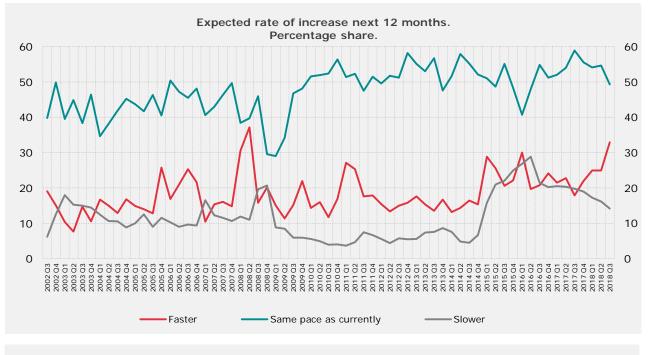
*N=989. The sample presented excludes respondents who answered: Don't know/Do not want to answer N=126, Extreme values N=23

NB: The method for calculating the mean for historical figures in the period of 2015 – 2017 has been changed. The result presented in the graph above is comparable with the previous result. Results published in the period of 2015 – 2017 have been changed to include those who respond "unchanged" to question 27 with the value "0" in the mean calculation. See technical comment on page 51 for households for further description.

Question 29: HOUSEHOLDS

Will prices rise faster, at the same pace as currently, or more slowly? (*If answered higher on question 27*)

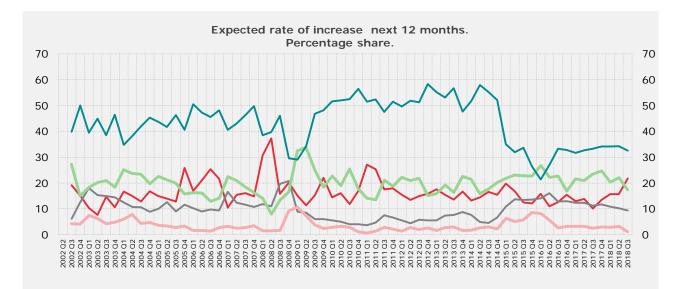
(The question was marginally changed from Q1 2015 – see technical comment)^{9.}



		2. Q. 2018	3. Q. 2018	CHANGE
Households	Faster	25.0	32.9	+ 7.9
	Same pace as currently	54.7	49.3	-5.4
	Slower	16.2	14.2	-2.0
	Sample	632	667	

Question 30: HOUSEHOLDS

The graph below illustrates households' expected change in prices over the next 12 months. The graphics are made by a combination of answers to questions 27 and 29.



Will increase faster than today Will stay at approximately the same level as today Will increase at the same pace as today

		2. Q. 2018	3. Q. 2018	CHANGE
	Will increase faster than today	15.7	21.7	+6.0
Households	Will increase at the same pace as today	34.3	32.5	-1.8
	Will increase at a slower pace than today	10.2	9.4	-0.8
	Wiil stay at approximately the same level as today	22.1	17.3	-4.8
	Will be somewhat lower than today	3.2	1.2	-2.0
	Sample	1006	1009	

Question 31: HOUSEHOLDS

How much do you think prices for goods and services, as measured by the consumer price index, will rise annually in two to three years, in percent? (*The question was marginally changed from Q1 2015 – see technical comment*)^{10.}



	Median	2.5	3.0	
Households	Lowest value	0.0	0.0	
	Highest value	10.0	10.0	
	Sample	747	748*	

*N=1009. The sample presented excludes respondents who answered: Don't know/Do not want to answer N=218, Extreme values N=43

Question 32: HOUSEHOLDS

Compared with 12 months ago, by how much do you think your wages or pension has changed in percent?

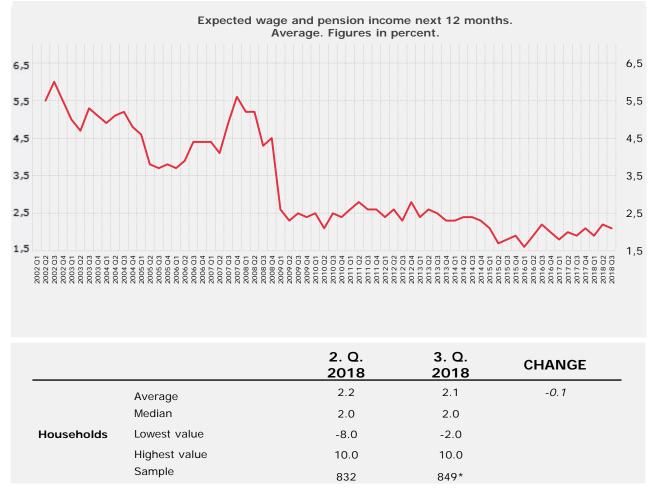


		2. Q. 2018	3. Q. 2018	CHANGE
	Average	2.0	2.0	
Households	Median	2.0	2.0	
	Lowest value	-5.0	-5.0	
	Highest value	10.0	10.0	
	Sample	808	806*	

*N=1009. The sample presented excludes respondents who answered: Don't know/Do not want to answer N=163, Extreme values N=40

Question 33: HOUSEHOLDS

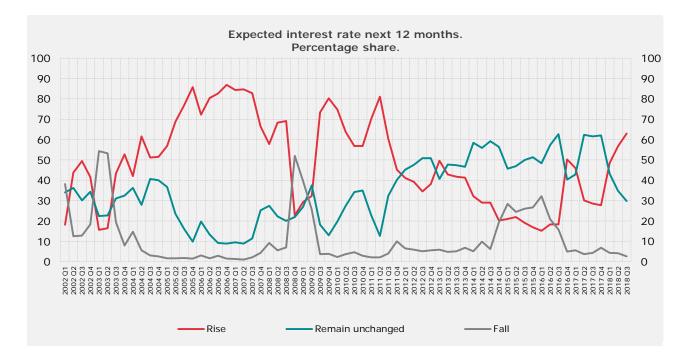
By approximately how much do you think your wage or pension income will change in percent over the next 12 months?



*N=1009. The sample presented excludes respondents who answered: Don't know/Do not want to answer N=132, Extreme values N=28

Question 34: HOUSEHOLDS

Do you think that over the next 12 months the level of deposit and lending rates will rise, remain unchanged or fall?



		2. Q. 2018	3. Q. 2018	CHANGE
Households	Rise	56.6	62.9	+6.3
	Remain unchanged	34.9	29.8	-5.1
	Fall	4.2	2.7	-1.5
	Sample	1006	1009	



TECHNICAL COMMENTS- ECONOMISTS AND SOCIAL PARTNERS

SAMPLE AND METHOD OF SAMPELING	The sample consists of experts in the financial industry, academia and social partners, enrolled by Epinion through e- mail and from respondent lists from the previously conducted surveys. The lists are corrected for respondents who are no longer relevant, or no longer wish to participate.
NUMBER OF INTERVIEWS	In this survey, a total of 83 interviews are conducted among economists within academia and the financial industry, as well as representatives of the social partners. The survey includes 46 interviews with economists and 37 interviews with representatives of the social partners.
WEIGHT	The results in this survey are not weighted.
METHOD OF DATA COLLECTION	The fieldwork is done online using the data collection tool IBM- SPSS. Respondents are invited to participate by e-mail.
PERIOD OF DATA COLLECTION	The fieldwork is conducted in the time period of 6 – 17 August 2018.
AVERAGE AND MEDIAN	Respondents who answer "I don't know" are not included in the calculation of average and/or median.
EXTREME OBSERVATIONS	Extreme observations over 8 percent (absolute value) are excluded from the presentation of the average figures for price and wage inflation.
MARGIN OF ERROR	The results must be interpreted within a margin of error of +/- 6.2 – 14.1 percentage points for the main frequencies. The margin of error for sub-groups and possible contingency tables are greater.

TECHNICAL COMMENTS – BUSINESS LEADERS

SAMPLE AND SAMPLING METHOD	The sample consists of a representative sample of CEOs, CFOs and purchasing managers in Norwegian businesses with 20 employees or more.
NUMBER OF INTERVIEWS	A total of 456 interviews have been conducted among business leaders, of which 267 are for businesses with 50 employees or more, and 189 are for businesses with less then 50 employees.
WEIGHT	The results in this survey are weighted based on the following variables: geography (region), sector (industry), and number of employees in the business. Weighted base is presented in the report.
METHOD OF DATA COLLECTION	The fieldwork is done online using the data collection tool IBM-SPSS. Respondents are invited to participate by e-mail.
PERIOD OF DATA COLLECTION	The fieldwork is conducted in the time period of 1 – 20 August 2018.
AVERAGE AND MEDIAN	Respondents who answered "I don't know" are not included in the calculation of average and/or median.
EXTREME OBSERVATIONS	Extreme observations over 11 percent (absolute value) are excluded from the presentation of the average figures for price and wage inflation.
MARGIN OF ERROR	The results must be interpreted within a margin of error of $+/-$ 1.9 – 4.5 percentage points for the main frequencies. The margin of error for subgroups and possible contingency tables are greater.

CHANGES IN THE QUESTIONNAIRE (Changed 1st quarter 2015)

¹Question 16 changed from «What do you think the general rise in prices will be in two years?» to «What do you think the general rise in prices for goods and services will be in two years, as measured by the consumer price index? »

²·Question 21 changed from «Over the past 12 months, has the profitability of your business improved, remained unchanged or weakened??» to «Over the past 12 months, has the profitability of your business, as measured by the operating margin (EBITDA), improved, remained unchanged or weakened?»

^{3.}Question 22 changed from «Do you think that over the next 12 months, the profitability of your business will improve, remain unchanged or weaken??» to «Do you think that over the next 12 months, the profitability of your business, as measured by the operating margin (EBITDA), will improve, remain unchanged or weaken?»

⁴·Question 23 changed from «Compared with 1 year earlier, does your business currently have more employees, the same number of employees or fewer employees?» to «Compared with 12 months earlier, does your business currently have more employees, the same number of employees or fewer employees?»

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TECHNICAL COMMENTS – HOUSEHOLDS

SAMPLE AND SAMPLING METHOD	The survey is conducted with a representative sample of private individuals over 15 years, drawn randomly from Norway's population. Interviews conducted on landline account for 15 percent, and interviews conducted on mobile phone account for 85 percent.
NUMBER OF INTERVIEWS	A total of 1009 interviews (weighted) among Norwegian households.
WEIGHT	The results in this survey are weighted based on the following variables: geography (region), age and gender. Weighted base is presented in the report.
METHOD OF DATA COLLECTION	The fieldwork is conducted by phone at Epinion's CATI-center.
PERIOD OF DATA COLLECTION	The fieldwork is conducted in the time period of 10 – 19 August 2018.
AVERAGE AND MEDIAN	Respondents who answered "I don't know" are not included in the calculation of average and/or median.
EXTREME OBSERVATIONS	Extreme observations over 11 percent (absolute value) are excluded from the presentation of the mean figures for price and wage inflation.
MARGIN OF ERROR	The results must be interpreted within a margin of error of $+/-$ 1.4 – 3.2 percentage points for the main frequencies. The margin of error for sub-groups and possible contingency tables are greater.

CHANGES IN THE QUESTIONNAIRE (Changed 1st quarter 2015)

⁵·Question 25 changed from «Compared with 12 months ago, do you think that prices for goods and services are now much higher, somewhat higher, slightly higher, approximately unchanged and lower» to «Compared with 12 months ago, do you think that prices for goods and services, as measured by the consumer price index, are now higher, approximately unchanged or lower?»

⁶ Question 26 changed from «By about how much do you think prices have changed measured in percent?» to «About how much higher/lower, measured in percent?». Question 26 is put to those who answered to question 25 that they think prices for goods and services, as measured by the consumer price index, are now higher, approximately unchanged or lower.

⁷ Question 27 changed from «Do you think that over the next 12 months, prices for goods and services will be higher, unchanged or lower than they are currently?» to «Do you think that over the next 12 months, prices for goods and services, as measured by the consumer price index, will be higher, unchanged or lower than they are currently?»

⁸ Question 28 changed from «By about how much do you think prices will change in the next 12 months, measured in percent?» to «About how much higher/lower, measured in percent?». Question 28 is put to those who answered to question 27 that, over the next 12 months, they expect the prices for goods and services, as measured by the consumer price index, to be higher, unchanged or lower than they are currently.

⁹ Question 29 changed from «If higher: Will prices rise faster, at the same pace as currently, or more slowly ?» to «Will prices rise faster, at the same pace as currently, or more slowly (If answered higher to question 27)?»

¹⁰·Question 31 changed from «How much do you think prices for goods and services will rise annually in two to three years, in percent?» to «How much do you think prices for goods and services, as measured by the consumer price index, will rise annually in two to three years, in percent?»

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TECHNICAL COMMENTS – HOUSEHOLDS

Question 26: By about how much do you think prices have changed measured in percent? *(Comparison of differences in published average for question 26 in the period of 2015 - 2017)*

The method for calculating the mean for historical figures in the period of 2015 – 2017 has been changed; the figures presented in the graph below as "Revised series" are comparable with the results published for the period before 2015.

Results published in the period of 2015 – 2017 as "Revised series" include those who answer "approximately unchanged" to question 25 as "0" in the mean calculation for question 26.

Results published in the period of 2015 – 2017 as "the previous published series" do not include those who answer "approximately unchanged" to question 25 as "0" in the mean calculation for question 26.



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TECHNICAL COMMENTS – HOUSEHOLDS

Question 28: About how much higher/lower, measured in percent? *(Comparison of differences in published average for question 28 in the period of 2015 - 2017)*

The method for calculating the mean for historical figures in the period of 2015 – 2017 has been changed; the figures presented in the graph below as "Revised series" are comparable with the results published for the period before 2015.

Results published in the period of 2015 – 2017 as "Revised series" include those who answer "unchanged" to question 27 as "0" in the mean calculation for question 28.

Results published in the period of 2015 – 2017 as "the previous published series" do not include those who answer "unchanged" to question 27 as "0" in the mean calculation for question 28.



EPINIQN

EPINION AARHUS

HACK KAMPMANNS PLADS 1-3 8000 AARHUS C T: +45 87 30 95 00 E: TV@EPINIONGLOBAL.COM W: WWW.EPINION.DK

EPINION HAMBURG

ERICUSSPITZE 4 20457 HAMBURG – GERMANY T: +45 87 30 95 00 E: TV@EPINIONGLOBAL.COM W: WWW.EPINIONCONSULTING.DE

EPINION COPENHAGEN

RYESGADE 3F 2200 COPENHAGEN N T: +45 87 30 95 00 E: TYA@EPINIONGLOBAL.COM W: WWW.EPINION.DK

EPINION MALMÖ

ADELGATAN 5 21122 MALMÖ - SWEDEN T: +45 87 30 95 00 E: TV@EPINIONGLOBAL.COM W: WWW.EPINION.SE

EPINION OSLO

BISKOP GUNNERUS GATE 2 0155 OSLO - NORWAY T: +47 90 17 18 99 E: SM@EPINIONGLOBAL.COM W: WWW.EPINION.NO

EPINION SAIGON

11TH FL, DINH LE BUILDING, 1 DINH LE, DIST. 4, HCMC VIETNAM T: +84 8 38 26 89 89 E: OFFICE@EPINIONGLOBAL.COM W: WWW.EPINION.VN

EPINION STAVANGER

KLUBBGATEN 4 4006 STAVANGER - NORWAY T: +47 90 17 18 99 E: SM@EPINIONGLOBAL.COM W: WWW.EPINION.NO

EPINION VIENNA

SEMPERSTRASSE 1/2 - 4 1180 VIENNA - AUSTRIA T: +45 87 30 95 00 E: TV@EPINIONGLOBAL.COM W: WWW.EPINIONCONSULTING.AT

